



PCT

RAW SEQUENCE LISTING

DATE: 10/08/2004

PATENT APPLICATION: US/10/509,669

TIME: 10:28:08

Input Set : A:\AG03-004C-US.txt

Output Set: N:\CRF4\10082004\J509669.raw

3 <110> APPLICANT: Agrinomics LLC
 5 <120> TITLE OF INVENTION: Generation of Plants with Improved Pathogen Resistance
 7 <130> FILE REFERENCE: AG03-004C-US
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/509,669
 C--> 9 <141> CURRENT FILING DATE: 2004-09-27
 9 <150> PRIOR APPLICATION NUMBER: US 60/368,613
 10 <151> PRIOR FILING DATE: 2002-03-27
 12 <160> NUMBER OF SEQ ID NOS: 3
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 735
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Arabidopsis thaliana
 21 <400> SEQUENCE: 1

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24	tcattggagct	cacaagaatc	attcttgtgg	gaagagagtt	tcttacatca	atcatttgac	120
26	caatccttcc	ttttatctag	ccctactgat	aactactgtg	atgacttctt	tgcatttgaa	180
28	tcataaatca	taaaagaaga	aggaaaagaa	gccaccgtgg	cggccgagga	ggaggagaag	240
30	tcatacagag	gagtgaggaa	acggccgtgg	gggaaattcg	cggccgagat	aagagactca	300
32	acgaggaaag	ggataagagt	gtggcttggg	acattcgaca	ccgcggaggc	ggcggctctc	360
34	gcttatgata	aggcggtctt	cgctttgaaa	ggcagcctcg	cagtactcaa	tttccccgcg	420
36	gatgtcggtt	aagaatctct	ccggaagatg	gagaatgtga	atctcaatga	tggagagtct	480
38	ccggtgatag	ccttgaagag	aaaacactcc	atgagaaacc	gtcctagagg	aaagaagaaa	540
40	ttttcttctt	cttcgacgtt	gacatcttct	ccttcttctt	cctcctccta	ttcatcttct	600
42	tcgtcttctt	cttctttgtc	gtcaagaagt	agaaaacaga	gtgttggtat	gacgcaagaa	660
44	agtaatacaa	cacttgtggt	tcttgaggat	ttaggtgctg	aatacttaga	agagcttatg	720
46	agatcatggt	cttga					735

49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 244
 51 <212> TYPE: PRT
 52 <213> ORGANISM: Arabidopsis thaliana
 54 <400> SEQUENCE: 2

56	Met	Glu	Tyr	Gln	Thr	Asn	Phe	Leu	Ser	Gly	Glu	Phe	Ser	Pro	Glu	Asn
57	1				5					10					15	
60	Ser	Ser	Ser	Ser	Ser	Trp	Ser	Ser	Gln	Glu	Ser	Phe	Leu	Trp	Glu	Glu
61					20					25					30	
64	Ser	Phe	Leu	His	Gln	Ser	Phe	Asp	Gln	Ser	Phe	Leu	Leu	Ser	Ser	Pro
65					35					40					45	
68	Thr	Asp	Asn	Tyr	Cys	Asp	Asp	Phe	Phe	Ala	Phe	Glu	Ser	Ser	Ile	Ile
69		50						55				60				
72	Lys	Glu	Glu	Gly	Lys	Glu	Ala	Thr	Val	Ala	Ala	Glu	Glu	Glu	Glu	Lys
73	65					70						75			80	
76	Ser	Tyr	Arg	Gly	Val	Arg	Lys	Arg	Pro	Trp	Gly	Lys	Phe	Ala	Ala	Glu

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77          85          90          95
80 Ile Arg Asp Ser Thr Arg Lys Gly Ile Arg Val Trp Leu Gly Thr Phe
81          100          105          110
84 Asp Thr Ala Glu Ala Ala Ala Leu Ala Tyr Asp Gln Ala Ala Phe Ala
85          115          120          125
88 Leu Lys Gly Ser Leu Ala Val Leu Asn Phe Pro Ala Asp Val Val Glu
89          130          135          140
92 Glu Ser Leu Arg Lys Met Glu Asn Val Asn Leu Asn Asp Gly Glu Ser
93 145          150          155          160
96 Pro Val Ile Ala Leu Lys Arg Lys His Ser Met Arg Asn Arg Pro Arg
97          165          170          175
100 Gly Lys Lys Lys Ser Ser Ser Ser Ser Thr Leu Thr Ser Ser Pro Ser
101          180          185          190
104 Ser Ser Ser Ser Tyr Ser Ser Ser Ser Ser Ser Ser Leu Ser Ser
105          195          200          205
108 Arg Ser Arg Lys Gln Ser Val Val Met Thr Gln Glu Ser Asn Thr Thr
109          210          215          220
112 Leu Val Val Leu Glu Asp Leu Gly Ala Glu Tyr Leu Glu Glu Leu Met
113 225          230          235          240
116 Arg Ser Cys Ser
120 <210> SEQ ID NO: 3
121 <211> LENGTH: 243
122 <212> TYPE: PRT
123 <213> ORGANISM: Arabidopsis thaliana
125 <400> SEQUENCE: 3
127 Met Glu Tyr Ser Gln Ser Ser Met Tyr Ser Ser Pro Ser Ser Trp Ser
128 1          5          10          15
131 Ser Ser Gln Glu Ser Leu Leu Trp Asn Glu Ser Cys Phe Leu Asp Gln
132          20          25          30
135 Ser Ser Glu Pro Gln Ala Phe Phe Cys Pro Asn Tyr Asp Tyr Ser Asp
136          35          40          45
139 Asp Phe Phe Ser Phe Glu Ser Pro Glu Met Met Ile Lys Glu Glu Ile
140          50          55          60
143 Gln Asn Gly Asp Val Ser Asn Ser Glu Glu Glu Lys Val Gly Ile
144 65          70          75          80
147 Asp Glu Glu Arg Ser Tyr Arg Gly Val Arg Lys Arg Pro Trp Gly Lys
148          85          90          95
151 Phe Ala Ala Glu Ile Arg Asp Ser Thr Arg Asn Gly Ile Arg Val Trp
152          100          105          110
155 Leu Gly Thr Phe Asp Lys Ala Glu Glu Ala Ala Leu Ala Tyr Asp Gln
156          115          120          125
159 Ala Ala Phe Ala Thr Lys Gly Ser Leu Ala Thr Leu Asn Phe Pro Val
160          130          135          140
163 Glu Val Val Arg Glu Ser Leu Lys Lys Met Glu Asn Val Asn Leu His
164 145          150          155          160
167 Asp Gly Gly Ser Pro Val Met Ala Leu Lys Arg Lys His Ser Leu Arg
168          165          170          175
171 Asn Arg Pro Arg Gly Lys Lys Arg Ser Ser Ser Ser Ser Ser Ser
172          180          185          190

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175 Ser Asn Ser Ser Ser Cys Ser Ser Ser Ser Thr Ser Ser Thr Ser
176 195 200 205
179 Arg Ser Ser Ser Lys Gln Ser Val Val Lys Gln Glu Ser Gly Thr Leu
180 210 215 220
183 Val Val Phe Glu Asp Leu Gly Ala Glu Tyr Leu Glu Gln Leu Leu Met
184 225 230 235 240
187 Ser Ser Cys

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/509,669

DATE: 10/08/2004

TIME: 10:28:09

Input Set : A:\AG03-004C-US.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date